

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Fluoride Buffer

CAS number N/A

Synonyms N/A

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory Chemicals

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC
12501 Pauls Valley Road
Austin, Texas 78737
U.S.A.

Telephone 512-668-9918
Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin Corrosion / Irritation Category 1
Eye Damage / Irritation Category 1

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
Precautionary statements	P260 Do not breathe fumes, mist, vapors, or spray. P264 Wash arms, hands and face thoroughly after handling. P280 Wear protective gloves and eye protection. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or physician. P321 Specific treatment (Wash areas of contact with water immediately). P363 Wash contaminated clothing before reuse. P405 Store locked up. P501 Dispose of contents in accordance with local, state, federal and international regulations

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Data not available.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	H ₂ O	7732-18-5	92.50
Acetic Acid	CH ₃ COOH	64-19-7	2.85
Sodium Chloride	NaCl	7647-14-5	2.76
Sodium Hydroxide	NaOH	1310-73-2	1.70
1,2-Cyclohexylenediamine Tetraacetic Acid (CDTA)	C ₁₄ H ₂₂ N ₂ O ₈ ·H ₂ O	13291-61-7	0.19
Proprietary	Proprietary	Proprietary	< 0.1
Sodium Fluoride	NaF	7681-49-4	< 0.1

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled	Remove person to fresh air and keep comfortable for breathing.
In case of skin contact	Take off immediately all contaminated clothing. Rinse skin with water. May cause irritation, redness, and pain.
In case of eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause irritation, redness, pain, and tearing.

If swallowed Rinse mouth. Do NOT induce vomiting. Dilute with water or milk. Call a physician if necessary.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage. Causes serious eye damage. May cause irritation upon contact. Wash areas of contact with water. Does not present any significant health hazards. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause irritation, redness, and pain.

4.3 Indication of any immediate medical attention and special treatment needed

Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Dilute with water or milk. Call a physician if necessary.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use any means suitable for extinguishing surrounding fire.

Unsuitable extinguishing media No information available

5.2 Specific hazards arising from the substance or mixture

Not considered to be a fire or explosion hazard.

5.3 Special protective equipment and precautions for firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

5.4 Further information

Flash Point No information available

Autoignition Temperature No information available

Explosion limits

Upper No information available

Lower No information available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

NFPA

No information available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective gloves and eye protection.

6.2 Environmental precautions

Absorb with suitable material (vermiculite, clay, paper towels, etc.). Treat the solid residue as normal refuse. Liquid may be flushed to the sewer with plenty of water.

6.3 Methods and materials for containment and cleaning up

No information available

6.4 Reference to other sections

No information available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Store locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

Hygiene measures

No information available

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

No information available

Incompatibilities

No information available

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Sodium Hydroxide (1310-73-2)	TWA	2 mg/m ³
Sodium Hydroxide (1310-73-2)	TLV-Ceiling	2 mg/m ³
Acetic Acid (64-19-7)	TWA	10 ppm TWA; 25 mg/m ³ TWA
Sodium Fluoride (7681-49-4)	TWA	2.5 mg/m ³ TWA

US. ACGIH Threshold Limit Values

Component	Type	Value
Sodium Hydroxide (1310-73-2)	TWA	2 mg/m ³
Sodium Hydroxide (1310-73-2)	TLV-Ceiling	2 mg/m ³
Acetic Acid (64-19-7)	TLV-STEL	15 ppm STEL
Acetic Acid (64-19-7)	TLV-TWA	10 ppm TWA
Sodium Fluoride (7681-49-4)	TLV-TWA	2.5 mg/m ³ TWA

US. NIOSH: Pocket Guide to Chemical Hazards

No information available

Biological occupational exposure limits

No information available

8.2 Exposure controls

Appropriate engineering controls

No specific controls are needed. Normal room ventilation is adequate.

Personal protective equipment

Eye/face protection

Wear protective gloves and eye protection. Safety glasses or goggles.

Skin protection

Wear protective gloves and eye protection. Chemical resistant gloves.

Body Protection

Wear protective gloves and eye protection. Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

Respiratory protection

Normal room ventilation is adequate.

Control of environmental exposure

No information available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Green liquid
Odor	No information available
Odor Threshold	No information available
pH	5 - 7
Melting Point/Range	Approximately 0°C
Boiling Point/Range	Approximately 100°C
Evaporation Rate	No information available
Flammability (solid)	No information available
Flammability or explosive limit	
Upper	No information available
Lower	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Density	1.05
Solubility	Miscible
Partition coefficient;	No information available
Autoignition Temp	No information available
Decomposition Temp	No information available
Viscosity	No information available
Molecular Formula	No information available
Molecular Weight	No information available
VOC Content(%)	No information available
Oxidizing properties	No information available

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions of use and storage.

10.2 Chemical stability

Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

No information available

10.4 Conditions to avoid

Oxidizing agents

10.5 Incompatible materials

Oxidizing agents

10.6 Hazardous decomposition products

Will not occur

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Chloride	3000 mg/kg	Not listed	Not listed
Sodium Fluoride	52 mg/kg	Not listed	Not listed
Acetic Acid	3310 mg/kg	Not listed	Not listed

Skin corrosion/irritation

Causes severe skin burns and eye damage. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Serious eye damage/eye irritation

Causes serious eye damage. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Respiratory or skin sensitization

Not applicable

Germ cell mutagenicity

Not applicable

Carcinogenicity

Not applicable

Specific target organ toxicity - single exposure

Not applicable

Specific target organ toxicity - repeated exposure

Not applicable

Reproductive toxicity

Not applicable

Chronic effects

Not applicable

11.2 Additional Information

No information available

SECTION 12: Ecological information

12.1 Toxicity

Not applicable

12.2 Persistence and degradability

No information available

12.3 Bio accumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Endocrine disrupting properties

No information available

12.7 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

No information available

SECTION 14: Transport information

DOT (US)

Not regulated

IMDG

Not regulated

IATA

Not regulated

SECTION 15: Regulatory information

US federal

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Sodium Hydroxide (CAS # 1310-73-2): Present (ACTIVE)
1,2-Cyclohexylenediamine Tetraacetic Acid (CDTA) (CAS # 13291-61-7): Present [PMN] (ACTIVE)
Acetic Acid (CAS # 64-19-7): Present (ACTIVE)
Sodium Chloride (CAS # 7647-14-5): Present (ACTIVE)
Sodium Fluoride (CAS # 7681-49-4): Present (ACTIVE)
Water (CAS # 7732-18-5): Present [XU] (ACTIVE)

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Sodium Hydroxide (CAS # 1310-73-2): 1000 lb final RQ
Sodium Hydroxide (CAS # 1310-73-2): 454 kg final RQ
Acetic Acid (CAS # 64-19-7): 2270 kg final RQ
Acetic Acid (CAS # 64-19-7): 5000 lb final RQ
Sodium Fluoride (CAS # 7681-49-4): 1000 lb final RQ
Sodium Fluoride (CAS # 7681-49-4): 454 kg final RQ

SARA 313 (TRI reporting)

Not listed.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not listed.

Safe Drinking Water Act

Not listed.

FEMA Priority Substances Respiratory Health and Safety in the Flavor

Not listed.

US state regulations

US. Massachusetts RTK - Substance List

Sodium Hydroxide (CAS # 1310-73-2): Present
Acetic Acid (CAS # 64-19-7): Present (including glacial)
Sodium Fluoride (CAS # 7681-49-4): Present

US. New Jersey Worker and Community Right-to-Know Act

Sodium Hydroxide (CAS # 1310-73-2): corrosive
Sodium Hydroxide (CAS # 1310-73-2): sn 1706
Acetic Acid (CAS # 64-19-7): corrosive
Acetic Acid (CAS # 64-19-7): sn 0004
Sodium Fluoride (CAS # 7681-49-4): sn 0936
Sodium Fluoride (CAS # 7681-49-4): sn 1699
Sodium Fluoride (CAS # 7681-49-4): teratogen

US. Pennsylvania Worker and Community Right-to-Know Law

Sodium Hydroxide (CAS # 1310-73-2): Environmental hazard
Acetic Acid (CAS # 64-19-7): Environmental hazard (including water solutions)
Sodium Fluoride (CAS # 7681-49-4): Environmental hazard
Water (CAS # 7732-18-5): Present

California Proposition 65

Not listed.

SECTION 16: Other information

Date of Issue: 9/19/2025

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.